

REPUBLIC OF POLAND KATOWICE 40-04 MARIACKA 11/7

KATOWICE 22-05-2025

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ARCTICUS BLANCUS ANTARCTIC ICE REMOVAL PROGRAM

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ANTARCTIC FEES ESTIMATION 8 MARITIME ICE TRANSPORT COST ESTIMATION 9 MARITIME ICE TRANSPORT VOLUME ESTIMATION 10 CONCLUSIONS AND RECOMMENDATIONS

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ARCTICUS BLANCUS ANTARCTIC FEES 14 15 1. ARCTICUS BLANCUS TRIBAL OPERATIONS FEE. 16 1 OUNCE OF GOLD PER 100,000 M3. 17 1~PANAM MAX SHIP = 5 OUNCES OF GOLD. 18 1KM3 OF ICE = 10.000 OUNCES OF GOLD 19 1,100,000 KM3 OF ICE = 11,000,000,000 OUNCES OF GOLD 20 21 a \$3500 PER OUNCE = \sim 38.5 TRILLION DOLLARS. 22 2. ANTARCTIC GEOMAGNETIC RESEARCH FEES. 23 EXPLOSIVES USE FEE 50% OF OPERATIONS FEE. 24 NON EXPLOSIVE OPERATIONS 25% OF OPERATIONS FEE. 25 26 3. URGENT CARE HEALTH CARE FACILITIES. 27 5-25 % OF TRIBAL OPERATIONS FEE PROVIDES ACCESS TO ANTARCTC HEALTH 28 CARE FACILITIES VIA AIR AND MARITIME TRANSPORT PAID BY THIS FEE. 29 30 4. INFRASTRUCTURE DECOMISSION DEPOSITS. 31 EQUAL TO COST OF DECONSTRUCTION AND REMOVAL OF INSTALLED 32 INFRASTRUCTURE BASED ON RATES AND SUBJECT TO CHANGE PAID IN GOLD. 33 34 35 ALL PRICES SUBJECT TO CHANGE. ONLY FORM OF CURRENCY ACCEPTED ARE VALUABLE METALS SUCH AS: GOLD & SILVER, COPPER & IRON. UP TO 10% OF FEES CAN BE PAID IN 36 37 INTERNATIONAL CURRENCY OF TRIBAL CHOSING WITH TRIBAL PERMISSION.



ICE SHIPPING CALCULATION VIA ULTRA LARGE CARRIER 38 (NO BARGE AND TUG BOAT) 39 40 **FROM** 41 42 RONNE ICE SHELF IN ANTARCTICA 43 TO ICE PROCESSING DOCKS OF SWAKOPMUND NAMBIA 44 DISTANCE 45 4500 NAUTICAL MILES 46 47 **CARGO SIZE** 500,000 DWTM3 48 **FUEL TYPE** 49 LNG 50 51 **FUEL PRICE** 500 DOLLAR PER TON 52 53 **FUEL CONSUMPTION** 100 TONS PER DAY 54 **TRIP LENGHT** 55 56 20 DAYS OF FUEL 57 **FUEL REQUIRED** 58 2000 TONS PER TRIP 59 **TOTAL PRICE** 1,000,000 DOLLAR 60 PRICE PER DWTM3 61 62 2 DOLLARS PER M3 (1000 LITERS) OF WATER 1 CENT PER 5 LITERS OF WATER 63 0.02 CENT PER 1 LITER OF WATER 64 CALCULATIONS BASED ON 65

66

67

https://www.shipuniverse.com/ship-fuel-cost-estimator/

BARGING AND RAW ICE TUGBOAT TRANSPORTATION, IF POSSIBLE, MUCH CHEAPER.



TOTAL ICE AREAS AND VOLUME TO REMOVE

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- 70 ACCESS FROM AFRICA
- 71 100,000 KM2
- 72 1000 KM LONG X 100 KM2 WIDE
- 73 ICE THICKNESS
- 74 MINIMAL 1000M
- 75 MAXIMAL 5000M

76

- 77 ACESS FROM AUSTRALIA
- 78 235,000 KM2
- 79 2300 KM LONG X 100 KM2 WIDE
- **80** ICE THICKNESS
- 81 MINIMAL 1000M
- 82 MAXIMAL 5000M

83

- 84 POLAR AREA ICE SIZE TO REMOVE (~ANTARCTIC DAM SIZE)
- 85 765,000 KM2
- 86 RADIUS 500 KM
- 87 DIAMETER 1000 KM

88

- 89 TOTAL PLANNED ICE AREA TO REMOVE
- 90 1,100,000 KM2

91

98

92 TOTAL MINIMAL ICE VOLUME BASED OF ICE HEIGHT

FOR 5KM THICK ICE

93 POLAR AREA + ACCESS FROM AFRICA

94	865,000 KM3	FOR 1KM THICK ICE
95	1,730,000 KM3	FOR 2KM THICK ICE
96	2,595,000	FOR 3KM THICK ICE
97	3,460,000	FOR 4KM THICK ICE

4,325,000



CARGO SHIPS CALCULATIONS 99 100 CARGO SHIPS VOLUME USED FOR CALCULATTION 101 ONE KM3 OF ICE = 1 KM3 = 1,000,000,000 M3102 ONE PANAMA CLASS CARGO SHIP = 500,000M2 = 0.005 KM3 OF ICE 103 200 PANAMA CLASS CARGO SHIPS = ONE KM3 OF ICE = 1KM3 OF ICE 104 105 FOR 6/ MONTH ICE REMOVAL 100 YEAR PLAN TOTAL ICE TO REMOVE 106 865,000 KM3 FOR 1KM THICK ICE = 173,000,000 PANAM MAX SHIPS LOAD 107 FOR 2KM THICK ICE = 346,000,000 PANAM MAX SHIPS LOAD 108 1,730,000 KM3 FOR 3KM THICK ICE = 519,000,000 PANAM MAX SHIPS LOAD 109 2,595,000 110 3,460,000 FOR 4KM THICK ICE = 692,000,000 PANAM MAX SHIPS LOAD 4,325,000 FOR 5KM THICK ICE = 856,000,000 PANAM MAX SHIPS LOAD 111 112 TOTAL ICE VOLUME / 100 YEARS/ 182 DAYS= NUMBER OF SHIPS PER DAY 113 FOR 1KM THICK ICE = 9,600 PANAM MAX SHIPS LOAD PER DAY 114 FOR 2KM THICK ICE = 19,200 PANAM MAX SHIPS LOAD PER DAY 115 FOR 3KM THICK ICE = 28,800 PANAM MAX SHIPS LOAD PER DAY 116 FOR 4KM THICK ICE = 38,400 PANAM MAX SHIPS LOAD PER DAY 117 FOR 5KM THICK ICE = 48,000 PANAM MAX SHIPS LOAD PER DAY 118 119 120 ICE REAPING OPERATION MAXIMUM ABILITIES AUSTRALIAN SIDE 100 KM WIDE WITH 1 ICE REAPER PER 1 KM OF 100KM WIDE LINE 121 AFRICAN SIDE 100 KM WIDE WITH 1 ICE REAPER PER 1 KM OF 100 KM WIDE LINE 122 123 TOTAL 200 ICE REAPERS THAT GIVES NUMER OF SHIPS PER DAY PER 1KM WIDE. 124 TOTAL NO. OF SHIPS REQUIRED FOR 24 HOUR OPERATIONS PER 1KM WIDE AREA. 125 126 FOR 1KM THICK ICE = 48 SHIP LOADS PER DAY PER 1 KM WIDE ICE AREA FOR 2KM THICK ICE = 96 SHIP LOADS PER DAY PER 1 KM WIDE ICE AREA 127 FOR 3KM THICK ICE = 144 SHIP LOADS PER DAY PER 1 KM WIDE ICE AREA 128 129 FOR 4KM THICK ICE = 192 SHIP LOADS PER DAY PER 1 KM WIDE ICE AREA

130

131

FOR 5KM THICK ICE = 240 SHIP LOADS PER DAY PER 1 KM WIDE ICE AREA



132	TOTAL NUMER OF SHIPS REQUIRED WITH VARIABLE SHIP TURNAROUND TIME
133	NOT ENOUGH DATA TO COMPLETE CALCULATIONS
134	
135	MAGNETIC FLUX INCREASE PER KM3 ON 1KM OF POLAR ICE REMOVED
136	UNKNOWN, NEED POLAR UNDER ICE MAGNETIC FLUX STUDY
137	AND MEGATOSPEHERE REFRACTION FORMULA BASED ON EM AND UV
138	WAVE PENETRATION, REFLECTION, REFRACTION.
139	
140	CONCLUSIONS
141	
142	A. LARGER SHIPS ALTERNATIVES MUST BE EXPLORED.
143	B. LONGER ICE REMOVAL TIME MIGHT BE REQUIRED EG 100-200 YEARS.
144	C. SHIPS WOULD REQUIRE NUCLEAR PROPULSIONS.
145	D. ALL ICE PROCESSING PORTS AND HALFWAY POINTS WOULD REQUIRE SPECIAL
146	NUCLEAR MAINTENANCE AND NUCLEAR EMERGENCY DOCKS.
147	E. ICE HARVESTING WOULD HAVE TO BE DONE ON 100 KM WIDE AREAS AND HAVE
148	TENS OF HARVESTERS ALONG EACH 1 KM WIDE AREA ALL THE WAY TO POLAR
149	REGION TO BE ABLE TO LOAD SHIPS WIHTOUT DELAY AS IT MIGHT TAKE
150	SEVERAL HOURS TO FULL DAY TO LOAD A SINGLE PANAM MAX CLAS SHIP.
151	F. AN ICE SHEET HAULING WITH RADIATION FREE NUCLEAR PROPULSION TUG
152	BOATS ELIMINATING RADIATION BY MAGNETIC PARTICLE CONVERSION-REDOX
153	REACTIONS, HAULING 1KM2 PIECES TO NAMIBIA AND AUSTRALIA COMPLETING
154	ALL OPERATIONS IN FRACTION OF PLANED TIME.
155	G. TESTS ON BASIC TUG BOAT PULLING AND ICE BEHAVIOUR TESTS SHOULD BE
156	DONE ON ALL ROUTS ON 1KM2 PIECES OF VARIABLE ICE THICKNESS.
157	
158	
159	



TUG BOAT SHIPS CALCULATIONS 160

161		
162	TOTAL MINIMA	L ICE VOLUME BASED OF ICE HEIGHT TO REMOVE
163	865,000 KM3	FOR 1KM THICK ICE
164	1,730,000 KM3	FOR 2KM THICK ICE
165	2,595,000	FOR 3KM THICK ICE
166	3,460,000	FOR 4KM THICK ICE
167	4,325,000	FOR 5KM THICK ICE
168		
169	NUMBER OF TU	GBOAT REQUIRED BASED ON ICE BLOCK SIZE. CALCULATIONS
170	MADE ON ICE TI	HICKNESS OF 1KM OF ICE = 865,000 KM3. FOR HIGHER ICE
171	THICKNESS MUI	LTIPLY BY NUMBER OF KILOMETERS OF ICE THICKNESS.
172		
173	2KM OF ICE	1,730,000 KM3 MULTIPLE BY 2X
174	3KM OF ICE	2,595,000 KM3 MULTIPLE BY 3X
175	4KM OF ICE	3,460,000 KM3 MULTIPLE BY 4X
176	5KM OF ICE	4,325,000 KM3 MULTIPLE BY 5X
177		
178	0.050 KM X 0.250 I	$KM \times 0.250 \text{ KM} = 0.003125 \text{ KM3} = 276,600,000 \text{ TUGBOAT TRIPS}$
179	0.050 KM X 0.250 I	$KM \times 0.500 \text{ KM} = 0.006250 \text{ KM3} = 138,400,000 \text{ TUGBOAT TRIPS}$
180	0.050 KM X 0.500 I	$KM \times 0.500 \text{ KM} = 0.012500 \text{ KM3} = 69,200,000 \text{ TUBBOAT TRIPS}$
181	0.050 KM X 0.500 I	$KM \times 0.750 \text{ KM} = 0.018750 \text{ KM3} = 46,133,333 \text{ TUGBOAT TRIPS}$
182	0.050 KM X 0.500 I	$KM \times 1.000 \text{ KM} = 0.025000 \text{ KM3} = 34,600,000 \text{ TUGBOAT TRIPS}$
183	0.050 KM X 0.750 I	$KM \times 1.000 \text{ KM} = 0.037500 \text{ KM3} = 23,066,667 \text{ TUGBOAT TRIPS}$
184	0.050 KM X 1.000 I	$KM \times 1.000 \text{ KM} = 0.050000 \text{ KM3} = 17,300,000 \text{ TUGBOAT TRIPS}$
185	0.050 KM X 1.000 I	KM X 1.250 KM = 0.062500 KM3 = 13,840,000 TUGBOAT TRIPS
186	0.050 KM X 1.000 I	KM X 1.500 KM = 0.075000 KM3 = 11,533,333 TUGBOAT TRIPS
187		
188	0.075 KM X 0.250 I	$KM \times 0.250 \text{ KM} = 0.0046875 \text{ KM3} = 184,533,333 \text{ TUGBOAT TRIPS}$
189	0.075 KM X 0.250 I	$KM \times 0.500 \text{ KM} = 0.0093750 \text{ KM3} = 92,266,667 \text{ TUGBOAT TRIPS}$

190

191

 $0.075 \text{ KM X } 0.500 \text{ KM X } 0.500 \text{ KM} = 0.0187500 \text{ KM3} = 46{,}133{,}333 \text{ TUGBOAT TRIPS}$

0.075 KM X 0.500 KM X 0.750 KM = 0.0281250 KM3 = 30,755,556 TUGBOAT TRIPS



- 0.075 KM X 0.500 KM X 1.000 KM = 0.0375000 KM3 = 23,066,667 TUGBOAT TRIPS
- 0.075 KM X 0.750 KM X 1.000 KM = 0.0562500 KM3 = 15,377,778 TUGBOAT TRIPS
- 0.075 KM X 1.000 KM X 1.000 KM = 0.0750000 KM3 = 11,533,333 TUGBOAT TRIPS
- 0.075 KM X 1.000 KM X 1.250 KM = 0.0937500 KM3 = 9,226,667 TUGBOAT TRIPS
- 0.075 KM X 1.000 KM X 1.500 KM = 0.1125000 KM3 = 7,688,889 TUGBOAT TRIPS
- 0.100 KM X 0.250 KM X 0.250 KM = 0.00625 KM3 = 138,400,000 TUGBOAT TRIPS
- 0.100 KM X 0.250 KM X 0.500 KM = 0.01250 KM3 = 69,200,000 TUGBOAT TRIPS
- 0.100 KM X 0.500 KM X 0.500 KM = 0.02500 KM3 = 34,600,000 TUGBOAT TRIPS
- 0.100 KM X 0.500 KM X 0.750 KM = 0.03750 KM3 = 23,066,667 TUGBOAT TRIPS
- 0.100 KM X 0.500 KM X 1.000 KM = 0.05000 KM3 = 17,300,000 TUGBOAT TRIPS
- 0.100 KM X 0.750 KM X 1.000 KM = 0.07500 KM3 = 11,533,333 TUGBOAT TRIPS
- 0.100 KM X 1.000 KM X 1.000 KM = 0.10000 KM3 = 8.650,000 TUGBOAT TRIPS
- 205 0.100 KM X 1.000 KM X 1.250 KM = 0.12500 KM3 = 6.920,000 TUGBOAT TRIPS
- 206 0.100 KM X 1.000 KM X 1.500 KM = 0.15000 KM3 = 5,766,667 TUGBOAT TRIPS
- 0.125 KM X 0.250 KM X 0.250 KM = 0.0078125 KM3 = 110,720,000 TUGBOAT TRIPS
- 0.125 KM X 0.250 KM X 0.500 KM = 0.0156250 KM3 = 55,360,000 TUGBOAT TRIPS
- 0.125 KM X 0.500 KM X 0.500 KM = 0.0312500 KM3 = 27,680,000 TUGBOAT TRIPS
- $0.125 \text{ KM } \times 0.500 \text{ KM } \times 0.750 \text{ KM} = 0.0468750 \text{ KM3} = 18,453,333 \text{ TUGBOAT TRIPS}$
- 0.125 KM X 0.500 KM X 1.000 KM = 0.0600000 KM3 = 14,416,667 TUGBOAT TRIPS
- 0.125 KM X 0.750 KM X 1.000 KM = 0.0937500 KM3 = 9.226,667 TUGBOAT TRIPS
- 0.125 KM X 1.000 KM X 1.000 KM = 0.1250000 KM3 = 6,920,000 TUGBOAT TRIPS
- 0.125 KM X 1.000 KM X 1.250 KM = 0.1562500 KM3 = 5,536,000 TUGBOAT TRIPS
- 0.125 KM X 1.000 KM X 1.500 KM = 0.1875000 KM3 = 4,613,333 TUGBOAT TRIPS
- 0.150 KM X 0.250 KM X 0.250 KM = 0.0093750 KM3 = 92,266,667 TUGBOAT TRIPS
- $0.150 \text{ KM } \times 0.250 \text{ KM } \times 0.500 \text{ KM} = 0.0187500 \text{ KM3} = 46.133.333 \text{ TUGBOAT TRIPS}$
- 0.150 KM X 0.500 KM X 0.500 KM = 0.0375000 KM3 = 23,066,667 TUGBOAT TRIPS
- $0.150 \text{ KM } \times 0.500 \text{ KM } \times 0.750 \text{ KM} = 0.0468750 \text{ KM3} = 18,453,333 \text{ TUGBOAT TRIPS}$
- 0.150 KM X 0.500 KM X 1.000 KM = 0.0750000 KM3 = 11,533,333 TUGBOAT TRIPS
- 0.150 KM X 0.750 KM X 1.000 KM = 0.1125000 KM3 = 7,688,889 TUGBOAT TRIPS
- 224 0.150 KM X 1.000 KM X 1.000 KM = 0.150000 KM3 = 5,766,667 TUGBOAT TRIPS



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225	0.150 KM X 1.000 KM X 1.2	250 KM = 0.187500 KM3 = 4,613,333 TUGBOAT TRIPS	
226	0.150 KM X 1.000 KM X 1.5	600 KM = 0.225000 KM3 = 3,844,444 TUGBOAT TRIPS	
227			
228	0.200 KM X 0.250 KM X 0.2	250 KM = 0.0125 KM3 = 69,200,000 TUGBOAT TRIPS	
229	0.200 KM X 0.250 KM X 0.5	600 KM = 0.0250 KM3 = 34,600,000 TUGBOAT TRIPS	
230	0.200 KM X 0.500 KM X 0.5	600 KM = 0.0500 KM3 = 17,300,000 TUGBOAT TRIPS	
231	0.200 KM X 0.500 KM X 0.7	750 KM = 0.0750 KM3 = 11,533,333 TUGBOAT TRIPS	
232	0.200 KM X 0.500 KM X 1.0	000 KM = 0.1000 KM3 = 8,650,000 TUGBOAT TRIPS	
233	0.200 KM X 0.750 KM X 1.0	000 KM = 0.1500 KM3 = 5,766,667 TUGBOAT TRIPS	
234	0.200 KM X 1.000 KM X 1.0	000 KM = 0.2000 KM3 = 4,325,000 TUGBOAT TRIPS	
235	0.200 KM X 1.000 KM X 1.2	250 KM = 0.2500 KM3 = 3,460,000 TUGBOAT TRIPS	
236	0.200 KM X 1.000 KM X 1.5	600 KM = 0.3000 KM3 = 2,883,333 TUGBOAT TRIPS	
237			
238		CONCLUCIONS	
239			
240	A. TUG BOAT WITH A	NUCLEAR POWER WILL BE BEST CHOICE TO TRA	NSPORT IN
241	OPEN WATERS LAI	RGE PIECES OF ANTARCTIC ICE.	
242	B. USE OF SPECIAL TO	OWING TAPES, ROPES, MESHES WILL BE NEEDED	TO KEEP ICE
243	INTACT IN THE OC	EAN WATERS.	
244	C. STUDIES AND TEST	IS SHOULD BE CONDUCTED ON TOWING VARIOUS	S PIECES OF
245	ICE WITHG PANAN	MA MAX CLASS VESSEL.	
246	D. USE OF EXTRA LAI	RGE AND POWERFULL TUG BOATS WILL ALLOW TO	O COMPLETE
247	THE ICE TRANSPO	RT IN 100-200 YEARS BY WORKING 6 MONTHS PER	YEAR WITH
248	25,000 TO 50,000 TU	G BOAT IN TOTAL.	
249	E. REFERENCE OF PL	ANNED ARCTIC DAM SIZE NOT PART OF ANTARCT	ПС
250	CALCULATION IN	NER RADIUS 850KM, OUTTER RADIUS 900 KM, 875,0	000 KM2
251			
252			
		KPa	ulab
253		Ma	NUK
254		Am	ien., Eugenix®

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Arctic Men Extinction Notice.

Arctic Magnetic Earth Naturalist.

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Arctic Magnetic Electric Nuissance.
Antarctic Mass Excavation Nonetheless.